Horiz. outlet RD 630



Also available in version: Ex

Vert. outlet VD 630

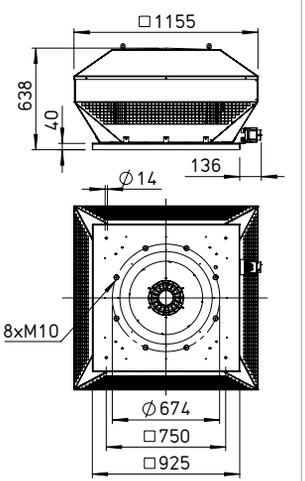


Also available in version: Ex

Vert. outlet VD 630 T120

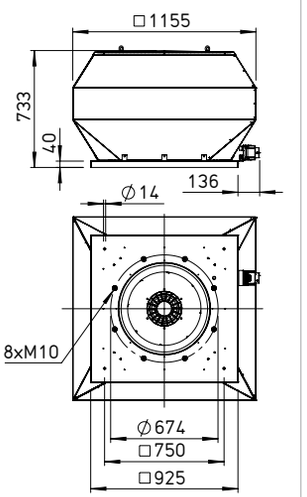


Dimensions RD 630



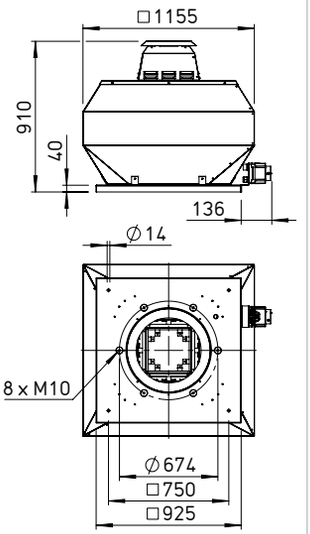
Dim. in mm

Dimensions VD 630



Dim. in mm

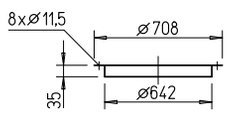
Dimensions VD 630 T120



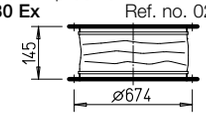
Dim. in mm

Dimensions Accessories for RD / VD 630*

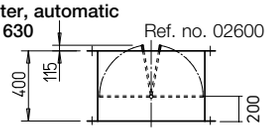
Counter flange
FR 630 Ref. no. 01211



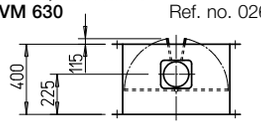
Flanged flexible connector*
STS 630 Ref. no. 01228
For explosion-proof fans
STS 630 Ex Ref. no. 02509



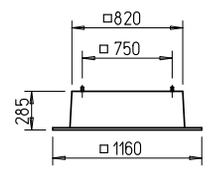
Shutter, automatic
RVS 630 Ref. no. 02600



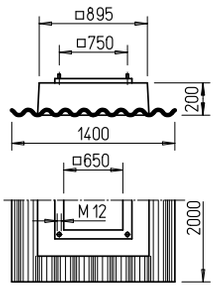
Shutter, motorised
RVM 630 Ref. no. 02609



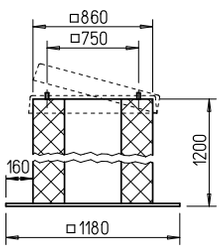
Flat roof base
FDS 630 Ref. no. 01382



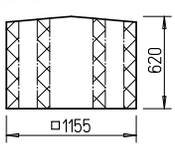
Corrugated roof base, profile 5
WDS 630 Ref. no. 01565



Base silencer
SSD 630 Ref. no. 05017



Hood silencer
HSDV 630 Ref. no. 07489
only for type VD



Dim. in mm

* Accessories VD T120 see installation accessories p. 561 f. Other accessories upon request.

Description RD

Horizontal outlet roof fan with efficiency-optimised aluminium casing and newly developed high-performance centrifugal impeller.

Description VD

Vertical outlet roof fan with efficiency-optimised aluminium casing and newly developed high-performance centrifugal impeller.

Description VD T120

Designed for the delivery of process air up to +120 °C.
Enclosed motor located outside of the air flow. Compliant with VDI 2052.

Description of all series

Casing
Casing made of sea water-resistant aluminium with integrated tamper protection. Motor support plate and base plate with inlet nozzle made of galvanised steel (explosion-proof version inlet nozzle made of aluminium). Base plate with threaded screws for attachment of inlet-side accessories (hole pattern according to DIN 24155).

Impeller
High-performance centrifugal impeller with backward curved blades made of aluminium. Dynamically balanced according to DIN ISO 21940-11 – quality grade 6.3.

Drive
Speed-controllable external rotor motor in closed design (IP54) (explosion-proof version in IP44). Flange motor with self-ventilation (T120 version) in IP55. Ball bearing mounted with moisture protection. Maintenance-free.

Motor protection
Through built-in thermal contacts or built-in PTC thermistors, which must be connected to a motor protection circuit breaker. Assignment see type table.

Electrical connection
No dismantling of casing, to external isolator switch (explosion-proof version to terminal box) in protection category IP65.

Protection grille
On the outlet side as standard according to DIN EN ISO 13857.

Power control
All types have continuously variable speed control in the range from 0 – 100 % with a frequency inverter with integrated, all-pole effective sine filter (except for explosion-proof version) or five-step control units (except for units with FU). Assignment see type table.

Delivery
Units are ready-for-connection, fully pre-assembled in the shipping box.
Easy positioning due to standard crane hook.

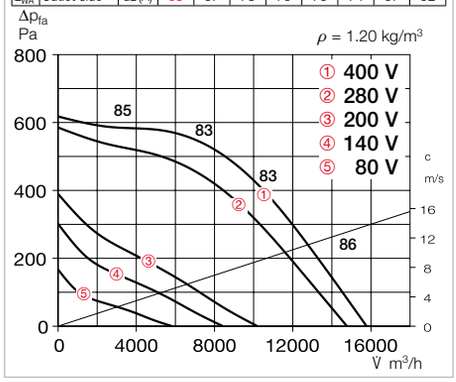
Noise
The total level and range are specified above the performance diagram for:
- ☐ Inlet side sound power
- ☐ Outlet side sound power.

The horizontally case-radiated noise as sound pressure at 4 m (free field conditions) is also specified in the type table. Hood silencer see Accessories.

References	Page
Planning information	14 ff.
Technical description	502 f.
Selection table	504 f.
Accessories, details	560 f.
Speed controllers, controllers and switches	601 ff.

Performance curves RDD 630/6

Frequency	Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA} Inlet side	dB(A)	79	62	69	73	74	72	70	61
L_{WA} Outlet side	dB(A)	83	67	73	79	78	74	67	62

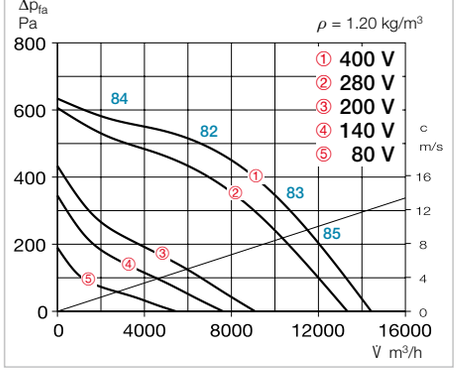


Type	Ref. no.	Speed	Flow rate Free blowing	Noise sound pressure	Power consump.	Current consump. at rated voltage	Current consump. with control	Wiring diagram	Max. air flow temp. at rated voltage	Max. air flow temp. with control	Weight net	Motor protection circuit breaker	Ref. no.	Speed controller 5-step	Ref. no.
		min⁻¹	m³/h	dB(A) in 4 m	W	A	A	No.	°C	°C	kg	Type		Type	
Three phase current, 3~, 400 V, 50 Hz, Squirrel-cage rotor, Protection category IP54															
RDD 630/6	07447	875	16650	66	2380	4.7	5.2	1129	55	45	92.0	**MD**	05849	**RDS 7**[2]	01578
Ex **Explosion-proof, II 3G Ex h IIB + H_2 T3 Gc, Motor Ex nA, Three phase current, 3~, 400 V, 50 Hz, Protection category IP44**															
RDD 630/6 Ex[1]	07450	905	16500	67.5	2690	5.4	5.6	1157	40	40	97.0	**MSA**	01289	**TSD 7**	01504

1) Performance diagram at www.HeliosSelect.de. 2) Includes motor protection circuit breaker.

Performance curves VDD 630/6

Frequency	Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA} Inlet side	dB(A)	78	65	71	72	72	71	64	57
L_{WA} Outlet side	dB(A)	83	67	76	77	77	76	71	63



Type	Ref. no.	Speed	Flow rate Free blowing	Noise sound pressure	Power consump.	Current consump. at rated voltage	Current consump. with control	Wiring diagram	Max. air flow temp. at rated voltage	Max. air flow temp. with control	Weight net	Motor protection circuit breaker	Ref. no.	Speed controller 5-step	Ref. no.
		min⁻¹	m³/h	dB(A) in 4 m	W	A	A	No.	°C	°C	kg	Type		Type	
Three phase current, 3~, 400 V, 50 Hz, Squirrel-cage rotor, Protection category IP54															
VDD 630/6	07441	930	14430	66	2130	4.6	4.95	1129	60	60	96.0	—	—	**RDS 7**[2]	01578
Ex **Explosion-proof, II 3G Ex h IIB + H_2 T3 Gc, Motor Ex nA, Three phase current, 3~, 400 V, 50 Hz, Protection category IP44**															
VDD 630/6 Ex[1]	07448	910	14700	67	2660	5.3	5.5	1157	40	40	101.0	**MSA**	01289	**TSD 7**	01504
T120 **Three phase current, 3~, 400 V, 50 Hz, Squirrel-cage rotor, Protection category IP55**															
VDD 630/6 T120[1]	07456	985	19540	69	3160	7.5	7.5	1130	105	—	105.0	**MSA**	01289	**FU-BS 10**	05462

1) Performance diagram at www.HeliosSelect.de. 2) Includes motor protection circuit breaker.